

SECRET

SAPC 2297
Copy 1 of 9

25 October 1955

MEMORANDUM FOR THE RECORD

SUBJECT: Meeting with Representatives of Westinghouse regarding
Westinghouse Proposal for Side-looking Radar System
/Modified AN/APQ 56 ()/

1. Time and Place of Meeting: The meeting was held from 1400 to 1630 on 18 October 1955 in the Washington offices of Westinghouse (1625 K Street, N. W.).

2. Attendance:
Mr. Bissell, Project Staff

25X1

3. Discussion:

a. Col. Ritland opened the discussion by stating the present status of interest in the Westinghouse system. He indicated that the requirements for the system had changed considerably since the previous meeting and that the pressing time factor of a February 1956 delivery date could be relaxed to April 1956. On the basis of this Mr. Bissell continued to outline a new method of attack to the system's developmental problems. Since operational scheduling no longer made the February date necessary, the entire Phase I /the unmodified AN/APQ 56 ()/ of the Westinghouse proposal could be bypassed and Phase II (Retrofit Program) could be initiated immediately. In doing so, it was hoped that no substantial waste of equipment or loss of man-hours would be incurred. Mr. Bissell also stated that a cost reduction would result from this change in concept and scheduling.

25X1

Eugene J. Martin

SECRET

- 2 -

b. In reply to the foregoing comments and recommendations, Mr. Nobles stated that the elimination of Phase I would be entirely satisfactory. With the elimination of the February delivery date, the retrofit program could be initiated immediately. Thus Phase II would use the majority of the components already procured for the AN/APQ 56 () under Phase I. [] also was agreeable to the April 1956 delivery date. He did not feel that any considerable amount of money could be saved by this process, however. The majority of the cost for the Project would be incurred in materials and engineering for the redesigned system. 25X1

c. [] then asked a number of questions relating to the compatibility of the modified APQ 56 with a miniaturized version of a drift angle indicator presently under development at GPL. Mr. [] replied that quantities such as drift angle and true heading could be fed into the Westinghouse system manually or directly by means of adding a servo-potentiometer to each of a number of existing shafts. Mr. Bissell indicated that he intended to further investigate the GPL system. 25X1 25X1

d. [] produced a number of sample prints of recordings made at altitudes ranging from 3,000 to 39,000 feet by the AN/APQ 56 (). These were examined by all present and retained by Mr. Bissell for further evaluation by the PI staff. The prints showed considerable detail at the lower altitudes (3,000 - 9,000 feet) and permitted location of bridge supports, river channel markers, aircraft on aprons and runways and small buildings. The prints resulting from higher altitude recordings (33,000 to 39,000 feet) showed such general details as main roadways, air fields, housing developments and wooded areas. No specific details such as aircraft, individual houses, or small boats were indicated. In reply to questions from [] stated that the modified system would sweep a path about fifteen miles wide with an "altitude smear" of poor resolution and undetermined width running down the center. 25X1

e. In response to questions from [] [] indicated an expected weight for the modified system of approximately 430 pounds, including cabling and brackets. 25X1 25X1

f. [] discussed the contractual side of the project and apparently agreed upon a suitable type of contract framework. The cost breakdown supplied by [] was felt to be inconclusive in the light of changes in numbers of systems and delivery dates. STAT 25X1

g. Mr. Bissell then proposed that Westinghouse consider a new request for three operational modified systems, one bench set and a selective set of spares to keep the three sets in operation for one year. The delivery date for these units would be April 1956. [] and [] agreed to submit a new proposal based upon these arrangements as soon as possible. 25X1 25X1

SECRET

- 3 -

h. [] questioned the adaptability of the modified system to low altitude (1,000 feet) flying. [] replied that the change-over would require only a new antenna design and a new plug in altitude component. [] indicated further interest in such a device.

25X1

25X1

25X1

i. [] agreed to attend a "Suppliers' Meeting" on the West Coast during the week of 7 November.

25X1

4. Action:

a. Westinghouse is to resubmit their proposal taking into account the new requirements pertaining to the immediate modification of the AN/APQ 56 (), change in number of systems to three with a bench set and spares, and an April 1956 delivery date.

b. Mr. Bissell is to contact GPL to determine the status of their lightweight drift angle indicator and coordinate findings with Westinghouse.

25X1

RAK:bm